

UNITED STATUS DEPARTMENT OF COMMER Patent and Trademark Office

ASSISTANT SECRETARY AND COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231

DATE: 04/14/92

TO:

ARMSTRONG, NIKAIDO, MARMELSTEIN ET AL

CHARLES M. MARMELSTEIN

SULFECTOO-1725 K STREET, N.W.

WASHINGTON, D.C. 20006

JUN 2 9 1998

RECEIVED

JUL 0 8 1998

UNITED STATES PATENT AND TRADEMARK OFFICE NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT GROUP 2106

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE U.S. PATENT AND TRADEMARK OFFICE ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT ASSIGNMENT PROCESSING SYSTEM. IF YOU SHOULD FIND ANY ERRORS, ON THIS NOTICE, PLEASE SEND A REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT BRANCH, NORTH TOWER BUILDING, SUITE 10C35, WASHINGTON, D.C. 20231

ASSIGNOR:

KONNO, JUN-ICHI

ASSIGNOR:

SHINAGAWA, KEISUKE

**ASSIGNOR:** 

ISHIDA, TOSHIYUKI

ASSIGNOR:

ITO, TAKAHIRO

ASSIGNOR:

KONDO, TETSUO

ASSIGNOR:

HARADA, FUKASHI

**ASSIGNOR:** 

FUJIMURA, SHUZO

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION

DOC DATE: 07/26/91

NUMBER OF PAGES 003 RECORDATION DATE: 08/21/91 REEL/FRAME 6028/0619

DIGEST : ASSIGNMENT OF ASSIGNORS INTEREST

6028/0619 PAGE 0002

ASSIGNEE:

FUJITSU LIMITED 1015, KAMIKODANAKA, NAKAHARA-KU KAWASAKI-SHI, KANAGAWA, 211 JAPAN

SERIAL NUMBER

7-743383

FILING DATE 08/21/91 ISSUE DATE 00/00/00

PATENT NUMBER ISSUE DATE



## RECEIVED

JUL 0 8 1998

PATENT AND TRADEMARK OFFICE

GROUP 2100

17/743380

19 Rec'd PCT/PTO

U.S. DEPARTMENT OF COMMERCE

ATTORNEY'S DOCKET NUMBER

DATE: August 21, 1991

911333

TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US)

INTERNATIONAL FILING DATE June 26, 1991

PRIORITY DATE CLAIMED June 27, 1990

TITLE OF INVENTION

PCT/JP91/00861

Form PTO-1390

METHOD FOR PRODUCING SEMICONDUCTOR INTEGRATED CIRCUITS AND APPARATUS USED IN SUCH METHOD

APPLICANT(S) FOR DO/EO/US

INTERNATIONAL APPLICATION NO.

Junichi KONNO; Keisuke SHINAGAWA; Toshiyuki ISHIDA; Takahiro ITO; Tetsuo KONDO; Fukashi HARADA and Shuzo FUJIMURA

Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items under 35 U.S.C. 371:

- 1. [xx] This express request to immediately begin national examination procedures (35 U.S.C. 371(f)).
- 2. [xx] The U.S. National Fee (35 U.S.C. 371(c)(1)) and other fees as follows:

CLAIMS	(1) FOR	(2) NUMBER	FILED	(3) NUMBER EXTRA	(4) RATE	(5)	CALCULATIONS
	TOTAL CLAIMS	22	-20=	2	x\$ 12.00	s	24.00
	INDEPENDENT CLAIMS	4	-3=	1	x\$ 36.00		36.00
	MULTIPLE DEPEN	IDENT CLAIMS(S)	(if applica	ble)	+\$120.00		
	BASIC NATIONAL		,				
	[] International preliminary examination fee paid to USPTO (37 CFR 1.482)\$330 [] No international preliminary examination fee paid to USPTO (37 CFR 1.482) but international search fee paid to USPTO (37 CFR 1.445 (a)(2))						
	[X] Neither international preliminary examination fee (37 CFR 1.482 nor international search fee (37 CFR 1.445(a)(2)) paid to USPTO\$500 [] International preliminary examination fee paid to USPTO (37 CFR 1.482) and all claims satisfied provisions of PCT Article 33(2) to (4)\$50						500,00
	Surcharge of \$120. for furnishing the National fee or oath or declaration later than [ ] 20 [ ] 30 mos. from the earliest claimed priority date (37 CFR 1.482(3)).						97
				TOTAL OF ABO	VE CALCULATIONS	=	560.00
	Reduction by 1/2 for filing by small entity, if applicable. Affidavit must be filed also. (Note 37 CFR 1.9, 1.27, 1.28)						
					SUBTOTAL	=	560.00
	Processing fee of \$30. for furnishing the English Translation later than [] 20 [] 30 mos. from the earliest claimed priority date (37 CFR 1.482(f)).						**************************************
				тот	AL NATIONAL FEE	=	560.00
	Fee for recordi	ee for recording the enclosed assignment (37 CFR 1.21(h)).					
				TOTA	L FEES ENCLOSED	\$	568.00

a. [ ] A check in the amount of \$\_ to cover the above fees is enclosed.

b. [xx] Please charge my Deposit Account No. 01-2395 in the amount of \$ 568.00 to cover the above fees. A duplicate copy of this sheet is enclosed.

c. [xx] The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 01-2395 . A duplicate copy of this sheet is enclosed.

8.00CH

 A copy of the International Application as filed (35 U.S.C. 371(c)(2)) a. [XX] is transmitted herewith (required only if not transmitted by the International Bureau). b. [ ] is not required, as the application was filed in the United States Receiving Office (RO/US). c. [ ] has been transmitted by the International Bureau. 4. [XX] A verified translation of the International Application into English (35 U.S.C. 371 (c)(2)). 5. Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371 (c)(3)) a. [ ] are transmitted herewith (required only if not transmitted by the International Bureau).
b. [ ] have been transmitted by the International Bureau. [ ] A translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371 (c)(3)). DXX] An oath or declaration of the inventor (35 U.S.C. 371(c)(4)). [ ] A translation of the Annexes to the International Preliminary Examination Report under PCT Article 36(35 U.S.C. 371(c)(5)). Other document(s) or information included: I An Information Disclosure Statement under 37 CFR 1.97 and 1.98; PTO-FB-A820; Ref. DXI An assignment document for recording. Please mail the recorded assignment document to: a. [XX] the person whose signature, name & address appears at the bottom of this page. 11. The above checked items are being transmitted a. [XX] before the 18th month publication. b. [ ] after publication and the Article 20 communication but before 20 months from the priority date. 1 after 20 months but before 22 months (surcharge and/or processing fee included). d. [ ] after 22 months (surcharge and/or processing fee included). Note: Petition to revive (37 CFR 1.137(a) or (b) is necessary if 35 U.S.C. 371 requirements submitted after 22 months and no proper demand for International Preliminary Examination was made by 19 months from the earliest claimed priority date. e. [ ] by 30 months and a proper demand for International Preliminary Examination was made by the 19th month from the earliest claimed priority date. f. [ ] after 30 months but before 32 months and a proper demand for International Preliminary Examination was made by the 19th month from the earliest claimed priority date (surcharge and/or processing fee included). g. [ ] after 32 months (surcharge and/or processing fee included). Note: Petition to revive (37 CFR 1.137(a) or (b) is necessary if 35 U.S.C. 371 requirements submitted after 32 months and a proper demand for International Preliminary Examination was made by 19 months from the earliest claimed priority date. 12. At the time of transmittal, the time limit for amending claims under Article 19 a. [ ] has expired and no amendments were made. b. [ ] has not yet expired. 13. [ ] Certain requirements under 35 U.S.C. 371 were previously submitted by the applicant on , namely: date 14. 7 sheets Drawings - 6 sneets
15. [ ] International Search Report 7 sheets Drawings - 6 sheets of drawings; 1 sheet of reference numerals ARMSTRONG, NIKAIDO, MARMELSTEIN, KUBOVCIK & MURRAY NAME Suite 1000 - 1725 K Street, N.W. ADDRESS Washington, D.C. 20006 (202) 659-2930 <u>Telephone No.</u> iece SIGNATURE Charles M. Marmelstein REGISTRATION NUMBER

## **U.S. ASSIGNMENT**

IN CONSIDERATION of the sum of One Dollar (\$1.00), and of other good and valuable consideration paid to the undersigned inventor(s) (hereinafter ASSIGNOR) by

	·									
	(hereinaster ASSIGNEE), the receipt of which is hereby act transfers to ASSIGNEE the entire and exclusive right, title	knowledged, the undersigned her and interest to the invention en	reby sells, assigns and							
Fitle of	METHOD FOR PRODUCING SEMICONDUCTOR INTEGRA									
overtion)	IN SUCH METHOD									
·	for which application for Letters Patent of the United State	es was								
Check ne Box)	2 executed on even date herewith,									
-	🗆 filed on, Serial No									
•	and all Letters Patent of the United States to be obtained ther renewal, substitute reissue or reexamination thereof for the	efor on said anntication as a								
	renewal, substitute reissue or reexamination thereof for the	full term or terms for which the	ontinuation, division, e same may granted.							
	The ASSIGNOR agree(s) to execute all papers necessary in									
	divisional, lessue of feexamination applications thereof an	d also to execute separate accion	and any continuing,							
	with such applications as the ASSIGNEE may deem necessary	ary or expedient.	on a connection							
	The ASSIGNOR agree(s) to execute all papers personal.		The ASSIGNOR agree(s) to execute all papers necessary in connection with any interference or litigation which may be declared concerning this application or any continuation, division, reissue or reexamination thereof or							
	The ASSIGNOR agree(s) to execute all papers necessary in	n connection with any interference	ce or litigation which							
	Letters Patent or reissue patent issued thereon and to coon	nation, division, reissue or reexa	amination thereof							
	Letters Patent or reissue patent issued thereon and to coon	nation, division, reissue or reexa	amination that of							
	Letters Patent or reissue patent issued thereon and to coop obtaining and producing evidence and proceeding with such	nation, division, reissue or reexa erate with the ASSIGNEE in e interference or litigation.	amination thereof or very way possible in							
	Letters Patent or reissue patent issued thereon and to coon	nation, division, reissue or reexa erate with the ASSIGNEE in e interference or litigation.	amination thereof or very way possible in							
	Letters Patent or reissue patent issued thereon and to coop obtaining and producing evidence and proceeding with such IN WITNESS WHEREOF, the undersigned inventor(s) h	nation, division, reissue or reexa erate with the ASSIGNEE in e interference or litigation. as (have) afixed his/her/their si	amination thereof or very way possible in							
gnatures)	Letters Patent or reissue patent issued thereon and to coop obtaining and producing evidence and proceeding with such IN WITNESS WHEREOF, the undersigned inventor(s) h	nation, division, reissue or reexterate with the ASSIGNEE in e interference or litigation.  as (have) afixed his/her/their si	amination thereof or very way possible in gnature(s).							
gnatures)	Letters Patent or reissue patent issued thereon and to coop obtaining and producing evidence and proceeding with such IN WITNESS WHEREOF, the undersigned inventor(s) h	nation, division, reissue or reexi erate with the ASSIGNEE in e interference or litigation. as (have) afixed his/her/their si Jun-1ch1 Konno (TYPE NAME)	amination thereof or very way possible in gnature(s).							
gnatures)	Letters Patent or reissue patent issued thereon and to coop obtaining and producing evidence and proceeding with such IN WITNESS WHEREOF, the undersigned inventor(s) h  Junichi Henric  (SIGNATURE)	nation, division, reissue or reexi erate with the ASSIGNEE in e interference or litigation. as (have) afixed his/her/their si Jun-1ch1 Konno (TYPE NAME)	gnature(s).  July 26, 1 (DATE)							
gnatures)	Letters Patent or reissue patent issued thereon and to coop obtaining and producing evidence and proceeding with such IN WITNESS WHEREOF, the undersigned inventor(s) h  Junichi Henric  (SIGNATURE)	nation, division, reissue or reexterate with the ASSIGNEE in e interference or litigation.  as (have) afixed his/her/their si	amination thereof or very way possible in							
gnatures)	Letters Patent or reissue patent issued thereon and to coop obtaining and producing evidence and proceeding with such IN WITNESS WHEREOF, the undersigned inventor(s) h	pation, division, reissue or reexa erate with the ASSIGNEE in e interference or litigation. as (have) afixed his/her/their si Jun-ichi Konno (TYPE NAME)  Keisuke Shinagawa (TYPE NAME)	gnature(s).  July 26, 1 (DATE)  July 26, 1 (DATE)							
gnatures)	Letters Patent or reissue patent issued thereon and to coop obtaining and producing evidence and proceeding with such IN WITNESS WHEREOF, the undersigned inventor(s) h  Junichi Henric  (SIGNATURE)	nation, division, reissue or reexierate with the ASSIGNEE in e interference or litigation.  as (have) afixed his/her/their si  Jun-ichi Konno  (TYPE NAME)  Keisuke Shinagawa	gnature(s).  July 26, 1 (DATE)  July 26, 1 (DATE)							
gnatures)	Letters Patent or reissue patent issued thereon and to coop obtaining and producing evidence and proceeding with such IN WITNESS WHEREOF, the undersigned inventor(s) has been such that the such that	ration, division, reissue or reexect at with the ASSIGNEE in e interference or litigation.  as (have) afixed his/her/their si  Jun-ichi Konno (TYPE NAME)  Keisuke Shinagawa (TYPE NAME)  Toshiyuki Ishida (TYPE NAME)	gnature(s).  July 26, 1 (DATE)  July 26, 1 (DATE)  July 26, 1 (DATE)							
gnatures)	Letters Patent or reissue patent issued thereon and to coop obtaining and producing evidence and proceeding with such IN WITNESS WHEREOF, the undersigned inventor(s) has been such that the such that	ration, division, reissue or reexect at with the ASSIGNEE in e interference or litigation.  as (have) afixed his/her/their si  Jun-ichi Konno (TYPE NAME)  Keisuke Shinagawa (TYPE NAME)  Toshiyuki Ishida (TYPE NAME)  Takahiro Ito	gnature(s).  July 26, 1 (DATE)  July 26, 1 (DATE)  July 26, 1 (DATE)							
(natures)	In WITNESS WHEREOF, the undersigned inventor(s) h  Junishi Menns  (SIGNATURE)  Keisuka Skingawa (SIGNATURE)  Tetawo Mondo (SIGNATURE)  Takahura Ito	ration, division, reissue or reexect at the ASSIGNEE in existence or litigation.  as (have) afixed his/her/their si  Jun-ichi Konno (TYPE NAME)  Keisuke Shinagawa (TYPE NAME)  Toshiyuki Ishida (TYPE NAME)  Takahiro Ito (TYPE NAME)	gnature(s).  July 26, 1 (DATE)  July 26, 1 (DATE)  July 26, 1 (DATE)							
gnatures)	In WITNESS WHEREOF, the undersigned inventor(s) h  Junishi Menns  (SIGNATURE)  Keisuka Skingawa (SIGNATURE)  Tetawo Mondo (SIGNATURE)  Takahura Ito	ration, division, reissue or reexect at with the ASSIGNEE in e interference or litigation.  as (have) afixed his/her/their si  Jun-ichi Konno (TYPE NAME)  Keisuke Shinagawa (TYPE NAME)  Toshiyuki Ishida (TYPE NAME)  Takahiro Ito	gnature(s).  July 26, 1 (DATE)  July 26, 1 (DATE)  July 26, 1 (DATE)  July 26, 1 (DATE)							
gnatures)	In WITNESS WHEREOF, the undersigned inventor(s) h  Tunishi Kenno (SIGNATURE)  Keisuka Skinagawa (SIGNATURE)  Takahura Ita (SIGNATURE)  Takahura Ita (SIGNATURE)  Takahura Londo (SIGNATURE)	ration, division, reissue or reexect at the ASSIGNEE in existence or litigation.  as (have) afixed his/her/their si  Jun-ichi Konno (TYPE NAME)  Keisuke Shinagawa (TYPE NAME)  Toshiyuki Ishida (TYPE NAME)  Takahiro Ito (TYPE NAME)	gnature(s).  July 26, 1 (DATE)  July 26, 1 (DATE)  July 26, 1 (DATE)  July 26, 1 (DATE)							
gnatures)	In WITNESS WHEREOF, the undersigned inventor(s) h  Tunishi Kenno (SIGNATURE)  Keisuka Skinagawa (SIGNATURE)  Takahura Ita (SIGNATURE)  Takahura Ita (SIGNATURE)  Takahura Londo (SIGNATURE)	ration, division, reissue or reexierate with the ASSIGNEE in e interference or litigation.  as (have) afixed his/her/their si  Jun-ichi Konno (TYPE NAME)  Keisuke Shinagawa (TYPE NAME)  Toshiyuki Ishida (TYPE NAME)  Takahiro Ito (TYPE NAME)  Tetsuo, Kondo (TYPE NAME)	gnature(s).  July 26, 1 (DATE)							
gnatures)	Letters Patent or reissue patent issued thereon and to coop obtaining and producing evidence and proceeding with such IN WITNESS WHEREOF, the undersigned inventor(s) has been such that the such that	ration, division, reissue or reexierate with the ASSIGNEE in e interference or litigation.  as (have) afixed his/her/their si  Jun-ichi Konno (TYPE NAME)  Keisuke Shinagawa (TYPE NAME)  Toshiyuki Ishida (TYPE NAME)  Takahiro Ito (TYPE NAME)  Tetsuo, Kondo (TYPE NAME)  Fukashi Harada	mination thereof or very way possible in gnature(s).  July 26, 1 (DATE)  July 26, 1							
gnatures)	In WITNESS WHEREOF, the undersigned inventor(s) h  Tunishi Kenno (SIGNATURE)  Keisuka Skinagawa (SIGNATURE)  Takahura Ita (SIGNATURE)  Takahura Ita (SIGNATURE)  Takahura Londo (SIGNATURE)	ration, division, reissue or reexect at the ASSIGNEE in election interference or litigation.  as (have) afixed his/her/their si  Jun-ichi Konno (TYPE NAME)  Keisuke Shinagawa (TYPE NAME)  Toshiyuki Ishida (TYPE NAME)  Takahiro Ito (TYPE NAME)  Tetsuo, Kondo (TYPE NAME)  Fukashi Harada (TYPE NAME)	gnature(s).  July 26, 1 (DATE)							
gnatures)	In WITNESS WHEREOF, the undersigned inventor(s) h  Tunishi Kenno (SIGNATURE)  Talashiro Itz (SIGNATURE)  Tetano Kondo (SIGNATURE)  The SIGNATURE)  The SIGNATURE  THE SIG	ration, division, reissue or reexierate with the ASSIGNEE in e interference or litigation.  as (have) afixed his/her/their si  Jun-ichi Konno (TYPE NAME)  Keisuke Shinagawa (TYPE NAME)  Toshiyuki Ishida (TYPE NAME)  Takahiro Ito (TYPE NAME)  Tetsuo, Kondo (TYPE NAME)  Fukashi Harada	mination thereof or very way possible in gnature(s).  July 26, 1 (DATE)  July 26, 1							
gnatures)	Letters Patent or reissue patent issued thereon and to coop obtaining and producing evidence and proceeding with such IN WITNESS WHEREOF, the undersigned inventor(s) has been such that the such that	ration, division, reissue or reexect at the ASSIGNEE in election interference or litigation.  as (have) afixed his/her/their si  Jun-ichi Konno (TYPE NAME)  Keisuke Shinagawa (TYPE NAME)  Toshiyuki Ishida (TYPE NAME)  Takahiro Ito (TYPE NAME)  Tetsuo, Kondo (TYPE NAME)  Fukashi Harada (TYPE NAME)	gnature(s).  July 26, 1 (DATE)							
gnatures)	In WITNESS WHEREOF, the undersigned inventor(s) h  Tunishi Kenno (SIGNATURE)  Talashiro Itz (SIGNATURE)  Tetano Kondo (SIGNATURE)  The SIGNATURE)  The SIGNATURE  THE SIG	ration, division, reissue or reexect at the ASSIGNEE in election interference or litigation.  as (have) afixed his/her/their si  Jun-ichi Konno (TYPE NAME)  Keisuke Shinagawa (TYPE NAME)  Toshiyuki Ishida (TYPE NAME)  Takahiro Ito (TYPE NAME)  Tetsuo, Kondo (TYPE NAME)  Fukashi Harada (TYPE NAME)  Shuzo Fujimura	gnature(s).  July 26, 1 (DATE)  July 26, 1							
gnatures)	In WITNESS WHEREOF, the undersigned inventor(s) h  Tunishi Kenno (SIGNATURE)  Talashiro Itz (SIGNATURE)  Tetano Kondo (SIGNATURE)  The SIGNATURE)  The SIGNATURE  THE SIG	ration, division, reissue or reexect erate with the ASSIGNEE in e interference or litigation.  as (have) afixed his/her/their si  Jun-ichi Konno (TYPE NAME)  Keisuke Shinagawa (TYPE NAME)  Toshiyuki Ishida (TYPE NAME)  Takahiro Ito (TYPE NAME)  Tetsuo, Kondo (TYPE NAME)  Fukashi Harada (TYPE NAME)  Shuzo Fujimura (TYPE NAME)	######################################							
;natures)	Letters Patent or reissue patent issued thereon and to coop obtaining and producing evidence and proceeding with such IN WITNESS WHEREOF, the undersigned inventor(s) has a such that the such that th	ration, division, reissue or reexect erate with the ASSIGNEE in e interference or litigation.  as (have) afixed his/her/their si  Jun-ichi Konno (TYPE NAME)  Keisuke Shinagawa (TYPE NAME)  Toshiyuki Ishida (TYPE NAME)  Takahiro Ito (TYPE NAME)  Tetsuo, Kondo (TYPE NAME)  Fukashi Harada (TYPE NAME)  Shuzo Fujimura (TYPE NAME)  (TYPE NAME)	mination thereof or very way possible in gnature(s).  July 26, 1 (DATE)  July 26, 1 (DATE)							
matures)	Letters Patent or reissue patent issued thereon and to coop obtaining and producing evidence and proceeding with such IN WITNESS WHEREOF, the undersigned inventor(s) has a supera (SIGNATURE)  Telsus Hongaura (SIGNATURE)  Talsahiro Hondo (SIGNATURE)  Telsus Hondo (SIGNATURE)  Telsus Hondo (SIGNATURE)  Telsus Hondo (SIGNATURE)  The Anna Hondo (SIGNATURE)	ration, division, reissue or reexect erate with the ASSIGNEE in e interference or litigation.  as (have) afixed his/her/their si  Jun-ichi Konno (TYPE NAME)  Keisuke Shinagawa (TYPE NAME)  Toshiyuki Ishida (TYPE NAME)  Takahiro Ito (TYPE NAME)  Tetsuo, Kondo (TYPE NAME)  Fukashi Harada (TYPE NAME)  Shuzo Fujimura (TYPE NAME)	######################################							

والمرابعة فالمتعقب المستعلق لمتتعقق فيجال بالقاء والمواثق





UNITED STATES 'ARTMENT OF COMMERCE Patent and Trademark Office ASSISTANT SECRETARY AND COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231

SERIAL NUMBER	FILING DATE	GRP ART UNIT	FIL	. FEE REC'D	ATTORNEY DOCKET NO.	DRWGS	TOT CL	IND CL
07/743,383	08/21/91	1304	\$	560.00	911333	7	22	4

ARMSTRONG, NIKAIDO, MARMELSTEIN, KUBOVCIK & MURRAY 1725 K ST. N.W., STE. 1000 WASHINGTON, DC 20006

Receipt is acknowledged of the patent application identified herein. It will be considered in its order and you will be notified as to the examination thereof. Be sure to give the U.S. SERIAL NUMBER, DATE OF FILING, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this transmittal.

Applicant(s)

JUN-ICHI KONNO, MIE, JAPAN; KEISUKE SHINAGAWA, KANAGAWA, JAPAN; TOSHIYUKI ISHIDA, KANAGAWA, JAPAN; TAKAHIRO ITO, KANAGAWA, JAPAN; TESTSUO KONDO, KANAGAWA, JAPAN; FUKASHI HARADA, MIE, JAPAN; SHUZO FUJIMURA, TOKYO, JAPAN.

FOREIGN/PCT APPLICATIONS-PCT JAPAN

PCT/JP91/00861 06/26/91 2-171791 06/27/90

TITLE METHOD FOR PRODUCING SEMICONDUCTOR INTEGRATED CIRCUITS AND APPARATUS USED IN SUCH METHOD

PRELIMINARY CLASS: 156



## UNITED STATUS DEPARTMENT OF COMMERCE Patent and Trademark Office

ASSISTANT SECRETARY AND COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231

9/1333

DATE: 04/14/92

TO:

ARMSTRONG, NIKAIDO, MARMELSTEIN ET AL

CHARLES M. MARMELSTEIN

SUITE 100-1725 K STREET, N.W.

WASHINGTON, D.C. 20006

UNITED STATES PATENT AND TRADEMARK OFFICE NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE U.S. PATENT AND TRADEMARK OFFICE ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT ASSIGNMENT PROCESSING SYSTEM. IF YOU SHOULD FIND ANY ERRORS, ON THIS NOTICE, PLEASE SEND A REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT BRANCH, NORTH TOWER BUILDING, SUITE 10C35, WASHINGTON, D.C. 20231

ASSIGNOR: DOC DATE: 07/26/91

KONNO, JUN-ICHI

ASSIGNOR: DOC DATE: 07/26/91

SHINAGAWA, KEISUKE

ASSIGNOR: DOC DATE: 07/26/91

ISHIDA, TOSHIYUKI

ASSIGNOR: DOC DATE: 07/26/91

ITO, TAKAHIRO

ASSIGNOR: DOC DATE: 07/26/91

KONDO, TETSUO

ASSIGNOR: DOC DATE: 07/26/91

HARADA, FUKASHI

ASSIGNOR: DOC DATE: 07/26/91

FUJIMURA, SHUZO

RECORDATION DATE: 08/21/91 NUMBER OF PAGES 003 REEL/FRAME 6028/0619

DIGEST : ASSIGNMENT OF ASSIGNORS INTEREST

6028/0619 PAGE 0002

ASSIGNEE:

FUJITSU LIMITED 1015, KAMIKODANAKA, NAKAHARA-KU KAWASAKI-SHI, KANAGAWA, 211 JAPAN

SERIAL NUMBER 7-743383 FILING DATE 08/21/91 PATENT NUMBER ISSUE DATE 00/00/00

911333

Form PTO-1390

DESIGNATED/ELECTED OFFICE (DO/EO/US) INTERNATIONAL FILING DATE

PRIORITY DATE CLAIMED June 27, 1990

17/743380

INTERNATIONAL APPLICATION NO. PCT/JP91/00861

TITLE OF INVENTION METHOD FOR PRODUCING SEMICONDUCTOR INTEGRATED CIRCUITS AND APPARATUS USED IN SUCH METHOD

APPLICANT(S) FOR DO/EO/US

Junichi KONNO; Keisuke SHINAGAWA; Toshiyuki ISHIDA; Takahiro ITO; Tetsuo KONDO; Fukashi HARADA and Shuzo FUJIMURA

U.S. DEPARTMENT OF COMMERCE

PATENT AND TRADEMARK OFFICE

Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items under 35 U.S.C. 371:

[xx] This express request to immediately begin national examination procedures (35 U.S.C. 371(f)).
 [xx] The U.S. National Fee (35 U.S.C. 371(c)(1)) and other fees as follows:

June 26, 1991

CLAIMS	(1) FOR	(2) NUMBER F	LED	(3) NUMBER EXTRA	(4) RATE	(5)	CALCULATIONS
	TOTAL CLAIMS	22	-20=	2	x\$ 12.00	\$	24.00
	INDEPENDENT CLAIMS	4	-3=	1	x\$ 36.00		36.00
	MULTIPLE DEPE						
	BASIC NATIONAL						
	[] Internation						
	[X] Neither in internation [ ] Internation and all c		500,00				
	Surcharge of S later than [ (37 CFR 1.482	<u>.</u>	97				
		TOTAL OF ABOVE CALCULAT				2	560.00
	Reduction by be filed also						
					SUBTOTAL	=	560.00
	Processing fe						
				TOTA	L NATIONAL FEE	=	560.00
	Fee for recording the enclosed assignment (37 CFR 1.21(h)).						8.00
***************************************				TOTAL	FEES ENCLOSED	\$	568.00

08/29/91 07743383

a. [ ] A check in the amount of \$ \_\_\_\_\_\_ to cover the above fees is enclosed.
 b. [xx] Please charge my Deposit Account No. 01-2395 in the amount of \$ 568.00 to cover the above fees. A duplicate copy of this sheet is enclosed.

c. [xx] The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 01-2395. A duplicate copy of this sheet is enclosed.

30374

01-2395 030 518

8.00CH

DATE: August 21, 1991 A copy of the International Application as filed (35 U.S.C. 371(c)(2)) a. [XX] is transmitted herewith (required only if not transmitted by the International Bureau). b. [ ] is not required, as the application was filed in the United States Receiving Office (RO/US). c. [ ] has been transmitted by the International Bureau. [XX] A verified translation of the International Application into English (35 U.S.C. 371 (c)(2)). Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371 (c)(3)) a. [ ] are transmitted herewith (required only if not transmitted by the International Bureau). b. [ ] have been transmitted by the International Bureau. [ ] A translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371 (c)(3)). [XX] An oath or declaration of the inventor (35 U.S.C. 371(c)(4)). [ ] A translation of the Annexes to the International Preliminary Examination Report under PCT Article 8. 36(35 U.S.C. 371(c)(5)). Other document(s) or information included: 9. [ ] An Information Disclosure Statement under 37 CFR 1.97 and 1.98; PTO-FB-A820; Ref. 10. [XX] An assignment document for recording. Please mail the recorded assignment document to: a. (XX) the person whose signature, name & address appears at the bottom of this page. 11. The above checked items are being transmitted a. [XX] before the 18th month publication. b. [ ] after publication and the Article 20 communication but before 20 months from the priority date.
 c. [ ] after 20 months but before 22 months (surcharge and/or processing fee included). d. [ ] after 22 months (surcharge and/or processing fee included). Note: Petition to revive (37 CFR 1.137(a) or (b) is necessary if 35 U.S.C. 371 requirements submitted after 22 months and no proper demand for International Preliminary Examination was made by 19 months from the earliest claimed priority date. e. [ ] by 30 months and a proper demand for International Preliminary Examination was made by the 19th month from the earliest claimed priority date. f. [ ] after 30 months but before 32 months and a proper demand for International Preliminary Examination was made by the 19th month from the earliest claimed priority date (surcharge and/or processing fee included). g. [ ] after 32 months (surcharge and/or processing fee included). Note: Petition to revive (37 CFR 1.137(a) or (b) is necessary if 35 U.S.C. 371 requirements submitted after 32 months and a proper demand for International Preliminary Examination was made by 19 months from the earliest claimed priority date. 12. At the time of transmittal, the time limit for amending claims under Article 19 a. [ ] has expired and no amendments were made. b. [ ] has not yet expired. [ ] Certain requirements under 35 U.S.C. 371 were previously submitted by the applicant on \_, namely: date Drawings - 6 sheets of drawings; 1 sheet of reference numerals 7 sheets 15. [ ] International Search Report ARMSTRONG, NIKAIDO, MARMELSTEIN, KUBOVCIK & MURRAY Suite 1000 - 1725 K Street, N.W Washington, D.C. 20006 Telephone No. (202) 659-2930 ices 25,895 SIGNATURE REGISTRATION NUMBER Charles M. Marmelstein